

In the Claims:

1 1. [currently amended] A method of mobile device control comprising:  
2 moving a surrogate under wireless control by a user; and  
3 during the moving, detecting unsuitable degradation of wireless  
4 communications of the wireless control; and  
5 in response to the detecting and while the surrogate is still receiving the  
6 wireless communications, autonomously moving the surrogate to provide suitable  
7 wireless communications of the ~~regain wireless control when the wireless control is~~  
8 ~~lost.~~

1 2. [original] The method as claimed in claim 1 additionally comprising:  
2 autonomously moving the surrogate along a previously determined route.

1 3. [currently amended] The method as claimed in claim 1 wherein:  
2 autonomously moving the surrogate to regain wireless control occurs after  
3 passage of a period of time following the detecting of the degradation.

1 4. [original] The method as claimed in claim 1 wherein:  
2 autonomously moving the surrogate includes measuring distance and  
3 avoiding collisions by the surrogate.

1 5. [original] The method as claimed in claim 1 wherein:  
2 moving the surrogate under wireless control includes logging forward motion  
3 using at least one of dead reckoning, odometry, directional measurement,  
4 differential wheel rotation, and a combination thereof.

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1           6. [original] The method as claimed in claim 1 wherein:  
2           autonomously moving the surrogate uses logged information of forward  
3 movement using at least one of dead reckoning, odometry, directional  
4 measurement, differential wheel rotation, and a combination thereof; and  
5           autonomously moving the surrogate uses waypoints back along a forward  
6 movement path for backtracking movement.

1           7. [currently amended] A method of mobile telepresencing comprising:  
2           moving a surrogate under real-time wireless control by a user; and  
3           autonomously moving the surrogate to an area with adequate wireless  
4 coverage to regain wireless control when the wireless control is lost for a period of  
5 time; and  
6           while the surrogate is autonomously moving, activating a human perceptible  
7 indicator which is perceptible to humans in the presence of the surrogate.

1           8. [original] The method as claimed in claim 7 additionally comprising:  
2           autonomously moving the surrogate along at least one of a previously  
3 determined route, a distance, a destination, a direction, or a combination thereof.

1           9. [original] The method as claimed in claim 7 wherein:  
2           losing wireless control includes degradation of the control to a threshold  
3 level;  
4           autonomously moving the surrogate to regain wireless control occurs after a  
5 period of time.

1           10. [original] The method as claimed in claim 7 wherein:  
2           autonomously moving the surrogate includes;  
3           backtracking while measuring distance and avoiding collisions by the  
4 surrogate;  
5           stopping the surrogate for an obstacle; and  
6           resuming backtracking after removal of the obstacle.

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1 11. [original] The method as claimed in claim 7 wherein:

2 moving the surrogate under wireless control includes logging forward motion  
3 using at least one of dead reckoning, odometry, directional measurement,  
4 differential wheel rotation, and a combination thereof.

1 12. [original] The method as claimed in claim 7 wherein:

2 autonomously moving the surrogate to backtrack uses logged information of  
3 forward movement using at least one of dead reckoning, odometry, directional  
4 measurement, differential wheel rotation, and a combination thereof;

5 autonomously moving the surrogate to backtrack uses a slower speed than  
6 forward speed; and

7 autonomously moving the surrogate uses waypoints back along a forward  
8 movement path for backtracking movement considering the slower speed of  
9 backtracking.

1 13. [currently amended] A mobile device control system comprising:

2 a surrogate movable under wireless control by a user; and

3 a computer/transceiver system on the surrogate for moving the surrogate to  
4 regain wireless control independently of the wireless control after passage of a non-  
5 zero amount of time following loss of the ~~when the wireless control is lost.~~

1 14. [original] The system as claimed in claim 13 wherein:

2 the computer/transceiver system for autonomously moving the surrogate  
3 along a previously determined route.

1 15. [currently amended] The system as claimed in claim 13 wherein:

2 the computer/transceiver system for autonomously moving the surrogate to  
3 regain wireless control occurs after the surrogate remains stationary for the non-  
4 zero amount ~~a period~~ of time.

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1 16. [original] The system as claimed in claim 13 wherein:  
2 the computer/transceiver system for autonomously moving the surrogate  
3 includes measuring distance and avoiding collisions by the surrogate.

1 17. [original] The system as claimed in claim 13 wherein:  
2 the computer/transceiver system includes logging forward motion using at  
3 least one of dead reckoning, odometry, directional measurement, differential wheel  
4 rotation, and a combination thereof.

1 18. [original] The system as claimed in claim 13 wherein:  
2 the computer/transceiver system uses logged information of forward  
3 movement using at least one of dead reckoning, odometry, directional  
4 measurement, differential wheel rotation, and a combination thereof; and  
5 the computer/transceiver system calculates waypoints back along a forward  
6 movement path for backtracking movement.

1 19. [currently amended] A mobile telepresencing system comprising:  
2 a surrogate movable under ~~real-time~~ wireless control by a user; and  
3 a computer/transceiver system for determining when the wireless control is  
4 lost and responsive to the determining, autonomously moving the surrogate to an  
5 area not currently receiving adequate coverage of the wireless control, but in which  
6 the surrogate previously experienced ~~with~~ adequate wireless coverage of the  
7 wireless control, to regain adequate coverage of the wireless control ~~when the~~  
8 ~~wireless control is lost for a period of time.~~

1 20. [original] The system as claimed in claim 19 additionally comprising:  
2 the computer/transceiver system for autonomously moving the surrogate  
3 along at least one of a previously determined route, a distance, a destination, a  
4 direction, or a combination thereof.

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1           21. [original] The system as claimed in claim 19 wherein:  
2           the computer/transceiver system for determining degradation of the wireless  
3 control to a threshold level;  
4           the computer/transceiver system for autonomously moving the surrogate to  
5 regain wireless control occurs after a period of time.

1           22. [original] The system as claimed in claim 19 wherein:  
2           the computer/transceiver system for autonomously moving the surrogate  
3 includes;  
4           backtracking means for measuring distance and avoiding collisions by the  
5 surrogate during backtracking;  
6           stopping means for stopping the surrogate for an obstacle; and  
7           means for resuming backtracking after removal of the obstacle.

1           23. [original] The system as claimed in claim 19 wherein:  
2           the computer/transceiver system includes means for logging forward motion  
3 using at least one of dead reckoning, odometry, directional measurement,  
4 differential wheel rotation, and a combination thereof.

1           24. [original] The system as claimed in claim 19 wherein:  
2           the computer/transceiver system uses logged information of forward  
3 movement using at least one of dead reckoning, odometry, directional  
4 measurement, differential wheel rotation, and a combination thereof for  
5 backtracking;  
6           the computer/transceiver system provides a slower speed than forward  
7 speed for backtracking by the surrogate; and  
8           the computer/transceiver system uses waypoints back along a forward  
9 movement path for backtracking movement considering the slower speed of  
10 backtracking.

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1           25.   [new] The method as claimed in claim 1 wherein:  
2           the detecting comprises comparing a performance parameter associated with  
3   the wireless communications with a threshold.

1           26.   [new] The method as claimed in claim 25 wherein:  
2           the performance parameter comprises a bandwidth and the threshold  
3   comprises an acceptable bandwidth.

1           27.   [new] The method as claimed in claim 26 further comprising:  
2           prior to the detecting, wirelessly transmitting a video signal at the acceptable  
3   bandwidth from the surrogate to the user.

1           28.   [new] The method as claimed in claim 10 further comprising:  
2           prior to the resuming of the backtracking, sensing removal of the obstacle;  
3   and  
4           wherein the resuming is responsive to the sensing.

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